# Wenbo Ding

List of Publications by Year
in descending order

| 53 papers | 3,981 citations | 218677 26 h-index | 315739 38 g-index |
|---|---|---|---|
| 53 all docs | 53 docs citations | 53 times ranked | 3805 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Reprint of: Sensing beyond itself: Multi-functional use of ubiquitous signals towards wearable applications. , 2022, 125, 103571. | | 0 |
| 2 | Underwater wireless communication via TENG-generated Maxwell's displacement current. Nature Communications, 2022, 13, . | 12.8 | 73 |
| 3 | Planar Magnetic Actuation for Soft and Rigid Robots Using a Scalable Electromagnet Array. IEEE Robotics and Automation Letters, 2022, 7, 9264-9270. | 5.1 | 4 |
| 4 | HTPad: Hexagon-fractal TENG Pad for Scalable Touch Control. , 2021, , . | | 0 |
| 5 | Sensing beyond itself: Multi-functional use of ubiquitous signals towards wearable applications. , 2021, 116, 103091. | | 13 |
| 6 | An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. Science Advances, 2021, 7, eabl3742. | 10.3 | 145 |
| 7 | Smartphone-powered efficient water disinfection at the point of use. Npj Clean Water, 2020, 3, . | 8.0 | 9 |
| 8 | Alternating Current Photovoltaic Effect. Advanced Materials, 2020, 32, e1907249. | 21.0 | 54 |
| 9 | Triboelectric nanogenerators enabled internet of things: A survey. Intelligent and Converged Networks, 2020, 1, 115-141. | 4.8 | 47 |
| 10 | Boost the Performance of Triboelectric Nanogenerators through Circuit Oscillation. Advanced Energy Materials, 2019, 9, 1900772. | 19.5 | 44 |
| 11 | Sunlight-Triggerable Transient Energy Harvester and Sensors Based on Triboelectric Nanogenerator Using Acid-Sensitive Poly(phthalaldehyde). Advanced Electronic Materials, 2019, 5, 1900725. | 5.1 | 15 |
| 12 | A Hybridized Triboelectric–Electromagnetic Water Wave Energy Harvester Based on a Magnetic Sphere. ACS Nano, 2019, 13, 2349-2356. | 14.6 | 92 |
| 13 | Contact-Electrification between Two Identical Materials: Curvature Effect. ACS Nano, 2019, 13, 2034-2041. | 14.6 | 78 |
| 14 | TriboPump: A Low-Cost, Hand-Powered Water Disinfection System. Advanced Energy Materials, 2019, 9, 1901320. | 19.5 | 74 |
| 15 | Electrohydrodynamic Jet Printing Driven by a Triboelectric Nanogenerator. Advanced Functional Materials, 2019, 29, 1901102. | 14.9 | 59 |
| 16 | Human–Machine Interfacing Enabled by Triboelectric Nanogenerators and Tribotronics. Advanced Materials Technologies, 2019, 4, 1800487. | 5.8 | 169 |
| 17 | Triboelectric Nanogenerator: A Foundation of the Energy for the New Era. Advanced Energy Materials, 2019, 9, 1802906. | 19.5 | 1,086 |
| 18 | Field Emission of Electrons Powered by a Triboelectric Nanogenerator. Advanced Functional Materials, 2018, 28, 1800610. | 14.9 | 44 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Vitrimer Elastomer–Based Jigsaw Puzzle–Like Healable Triboelectric Nanogenerator for Self–Powered Wearable Electronics. Advanced Materials, 2018, 30, e1705918. | 21.0 | 265 |
| 20 | Complementary Electromagnetic–Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. Advanced Functional Materials, 2018, 28, 1705808. | 14.9 | 87 |
| 21 | Shape Memory Polymers for Body Motion Energy Harvesting and Self–Powered Mechanosensing. Advanced Materials, 2018, 30, 1705195. | 21.0 | 249 |
| 22 | A Hierarchically Nanostructured Cellulose Fiber–Based Triboelectric Nanogenerator for Self–Powered Healthcare Products. Advanced Functional Materials, 2018, 28, 1805540. | 14.9 | 180 |
| 23 | Triboelectric microplasma powered by mechanical stimuli. Nature Communications, 2018, 9, 3733. | 12.8 | 212 |
| 24 | Intercommunity Detection Scheme for Social Internet of Things: Compressive Sensing Over Graphs Approach. IEEE Internet of Things Journal, 2018, 5, 4550-4557. | 8.7 | 19 |
| 25 | Self-Powered Multifunctional Motion Sensor Enabled by Magnetic-Regulated Triboelectric Nanogenerator. ACS Nano, 2018, 12, 5726-5733. | 14.6 | 109 |
| 26 | Compressive Sensing over Graphs Based Inter-Community Detection Scheme in Mobile Social Networks. , 2018, , . | | 1 |
| 27 | Structured Compressive Sensing-Based Channel Estimation for Time Frequency Training OFDM Systems Over Doubly Selective Channel. IEEE Wireless Communications Letters, 2017, 6, 266-269. | 5.0 | 23 |
| 28 | Maximized Effective Energy Output of Contact–Separation–Triggered Triboelectric Nanogenerators as Limited by Air Breakdown. Advanced Functional Materials, 2017, 27, 1700049. | 14.9 | 144 |
| 29 | A Self–Powered Dynamic Displacement Monitoring System Based on Triboelectric Accelerometer. Advanced Energy Materials, 2017, 7, 1700565. | 19.5 | 117 |
| 30 | Integrated power line and visible light communication system compatible with multi–service transmission. IET Communications, 2017, 11, 104-111. | 2.2 | 36 |
| 31 | Piezo–Phototronic Effect on Selective Electron or Hole Transport through Depletion Region of Vis–NIR Broadband Photodiode. Advanced Materials, 2017, 29, 1701412. | 21.0 | 82 |
| 32 | Dynamic Matching Based Distributed Spectrum Trading in Multi-Radio Multi-Channel CRNs. , 2016, , . | | 1 |
| 33 | Structured compressive sensing–based non–orthogonal time–domain training channel state information acquisition for multiple input multiple output systems. IET Communications, 2016, 10, 685-690. | 2.2 | 15 |
| 34 | Spectrally Efficient CSI Acquisition for Power Line Communications: A Bayesian Compressive Sensing Perspective. IEEE Journal on Selected Areas in Communications, 2016, 34, 2022-2032. | 14.0 | 26 |
| 35 | Novel Approach to Design Time-Domain Training Sequence for Accurate Sparse Channel Estimation. IEEE Transactions on Broadcasting, 2016, 62, 512-520. | 3.2 | 30 |
| 36 | Compressive sensing based time-frequency joint non-orthogonal multiple access. , 2016, , . | | 7 |

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|---|---------|-----|-----------|
| 37 | Two-Dimensional Structured-Compressed-Sensing-Based NBI Cancelation Exploiting Spatial and Temporal Correlations in MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 9020-9028. | 6.3 | 20 |
| 38 | Nonorthogonal Time–Frequency Training-Sequence-Based CSI Acquisition for MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5714-5719. | 6.3 | 26 |
| 39 | Double Kill: Compressive-Sensing-Based Narrow-Band Interference and Impulsive Noise Mitigation for Vehicular Communications. IEEE Transactions on Vehicular Technology, 2016, 65, 5099-5109. | 6.3 | 67 |
| 40 | Sparse Bayesian Learning Based Symbol Detection for Generalised Spatial Modulation in Large-Scale MIMO Systems. , 2015, , . | | 7 |
| 41 | Time–Frequency Joint Sparse Channel Estimation for MIMO-OFDM Systems. IEEE Communications Letters, 2015, 19, 58-61. | 4.1 | 74 |
| 42 | &lt;inline-formula&gt; &lt;tex-math notation="LaTeX"&gt;$\ell_\infty$$&lt;/tex-math&gt;&lt;/inline-formula&gt; Minimization Based Symbol Detection for Generalized Space Shift Keying. IEEE Communications Letters, 2015, 19, 1109-1112. | 4.1 | 10 |
| 43 | An Indoor Broadband Broadcasting System Based on PLC and VLC. IEEE Transactions on Broadcasting, 2015, 61, 299-308. | 3.2 | 99 |
| 44 | Approach to suppress out‐of‐band emission for dual pseudo noise padded time‐domain synchronous‐orthogonal frequency division multiplexing systems. IET Communications, 2015, 9, 1606-1614. | 2.2 | 3 |
| 45 | Energy‐efficient orthogonal frequency division multiplexing scheme based on time–frequency joint channel estimation. IET Communications, 2014, 8, 3406-3413. | 2.2 | 10 |
| 46 | Joint time-frequency channel estimation method for OFDM systems based on compressive sensing. , 2014, , . | | 2 |
| 47 | Indoor hospital communication systems: An integrated solution based on power line and visible light communication. , 2014, , . | | 32 |
| 48 | Sparse Bayesian Learning Based Symbol Detection for Generalised Spatial Modulation in Large-Scale MIMO Systems. , 2014, , . | | 0 |
| 49 | Non-intrusive power line quality monitoring based on power line communications. , 2013, , . | | 13 |
| 50 | Out-of-band power suppression for TDS-OFDM systems. , 2013, , . | | 4 |
| 51 | Spectrum notch techniques for TDS-OFDM system. , 2013, , . | | 1 |
| 52 | The Modeling and Prediction of the Receive Quality under Single Frequency Networks for DTMB System. , 2011, , . | | 1 |
| 53 | Measurement and prediction of DTMB reception quality in single frequency networks. , 2011, , . | | 3 |